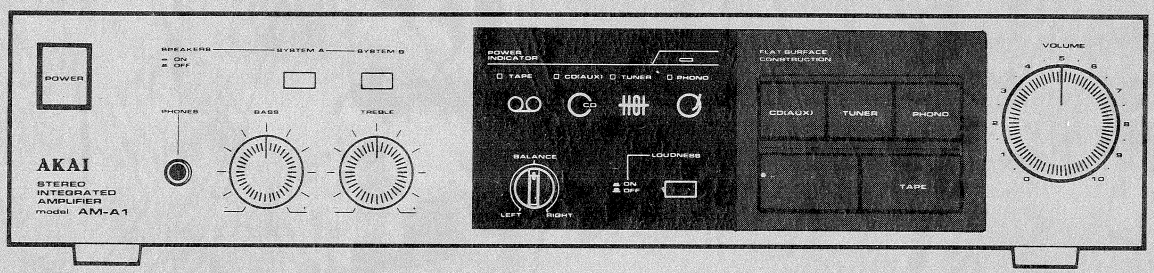
AKAI SERVICE MANUAL

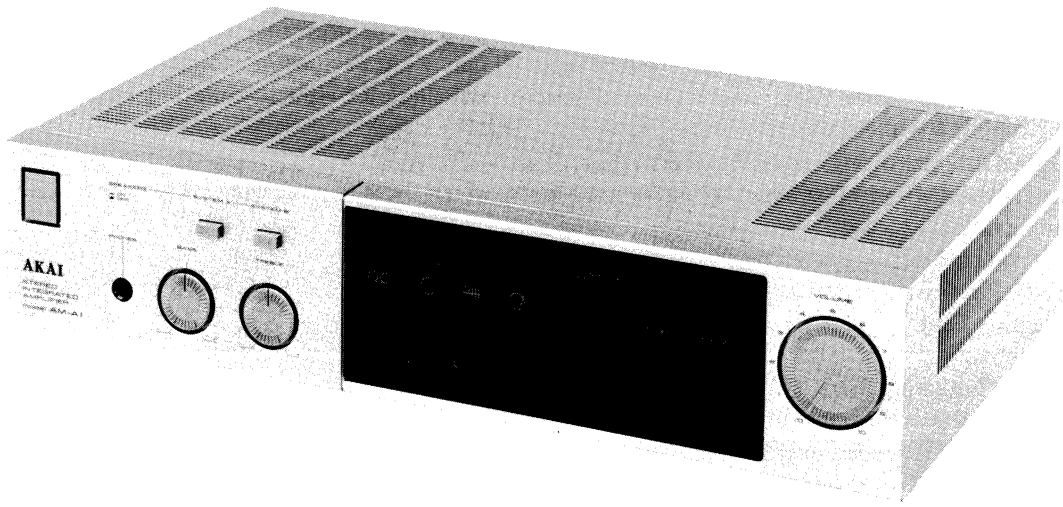


STEREO INTEGRATED AMPLIFIER

MODEL AM-A1

ABBREVIATIONS FOR SERVICE MANUAL
MODEL AM-A1

ABBREVIATION	EXPLANATION
FTC	Federal Trade Commission
G-EQ	Graphic EQualizer
IHF	Institute High Fidelity (Standard)
RIAA	Recording Industry Association of America
SW	Switch



STEREO INTEGRATED AMPLIFIER

MODEL AM-A1

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SECTION 2 PARTS LIST 9

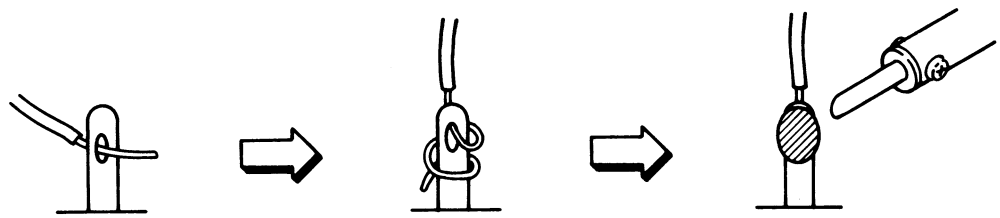
SAFETY INSTRUCTIONS

SAFETY CHECK AFTER SERVICING

Confirm the specified insulation resistance between power cord plug prongs and externally exposed parts of the set is greater than 10 Mohms, but for equipment with external antenna terminals (tuner, receiver, etc.) and is intended for [C] or [A], specified insulation resistance should be more than 2.2 Mohms (ground terminals, microphone jacks, headphone jacks. line-in-out jacks etc.)

PRECAUTIONS DURING SERVICING

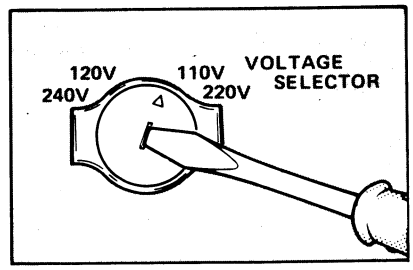
1. Parts identified by the ⚠ symbol parts are critical for safety.
   Replace only with parts number specified.
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation. These must also be replaced only with specified replacements.
   Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.
3. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape
   2) PVC tubing
   3) Spacers (Insulating Barriers)
   4) Insulation sheets for transistors
   5) Plastic screws for fixing microswitch (especially in turntable)
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



6. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).
7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locations.
9. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

VOLTAGE CONVERSION

Models for Canada USA, Europe, UK and Australia are not equipped with this facility. Each machine is preset at the factory according to destination, but some machines can be set to 110V, 120V, 220V, or 240V as required.
If your machine's voltage can be converted:
Before connecting the power cord, turn the VOLTAGE SELECTOR located on the rear panel with a screwdriver until the correct voltage is indicated.



SECTION 1

SERVICE MANUAL

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II. DISMANTLING OF UNIT 5
III. CONTROLS 6
IV. PLINCIPAL PARTS LOCATION 7
V. ADJUSTMENT 8
VI. PC BOARD TITLE AND IDENTIFICATIONS 8

For basic adjustments, measuring methods, and operating principles, refer to GENERAL TECHNICAL MANUAL.

I . SPECIFICATIONS

POWER AMPLIFIER SECTION

RATED POWER OUTPUT	8 ohms	4 ohms
40Hz to 20kHz	25W/0.3%	25W/0.3%
POWER OUTPUT (by FTC)	8 ohms	4 ohms
40Hz to 20kHz	28W/0.3%	28W/0.3%
1kHz	30W/0.3%	30W/0.3%
MUSIC POWER (BOTH CHANNEL)	100W	
POWER BANDWIDTH (IHF –3dB, 8 ohms)	5Hz to 40kHz (0.5%)	
S/N (IHF–A)		
PHONO	72dB	
CD (AUX)	95dB	
RESIDUAL NOISE (8 ohms)	0.5mV	
CHANNEL SEPARATION (IHF, 1kHz)	55dB	
DAMPING FACTOR (1kHz, 8 ohms)	30	
REQUIRED SPEAKER IMPEDANCE	A or B : 4 to 16 ohms	
	A + B : 8 to 16 ohms	

PRE AMPLIFIER SECTION

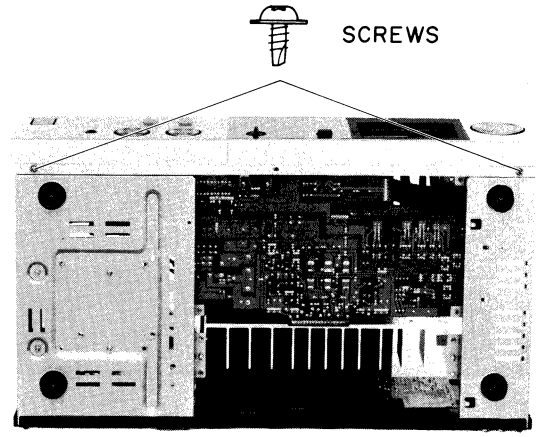
INPUT SENSITIVITY/IMPEDANCE	
PHONO	2mV/47kohms
CD (AUX)	150mV/47kohms
TAPE	150mV/47kohms
OUTPUT LEVEL/IMPEDANCE	
TAPE REC	150mV/1kohms
FREQUENCY RESPONSE	
PHONO (RIAA DEVIATION)	±0.5dB
CD (AUX)	5Hz to 80kHz (–3dB)
TONE CONTROL	
BASS	±8dB
TREBLE	±8dB
LOUDNESS CONTROL	
(VOLUME SET AT –30dB POSITION)	100Hz/+9dB
	10kHz/+5dB
PHONO MAX. INPUT LEVEL	150mV
POWER REQUIREMENTS	120V, 60Hz for USA & Canada
	220V, 50Hz for Europe except UK
	240V, 50Hz for UK & Australia
	110/120/220/240V, 50/60Hz switchable for other countries
DIMENSIONS	440 (W) x 98 (H) x 255 (D) mm
	(17.3 x 3.9 x 10 inches)
WEIGHT	5.45kg(11.99 lbs)

* For improvement purposes, specifications and design are subject to change without notice.

II. DISMANTLING OF UNIT

In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.

3



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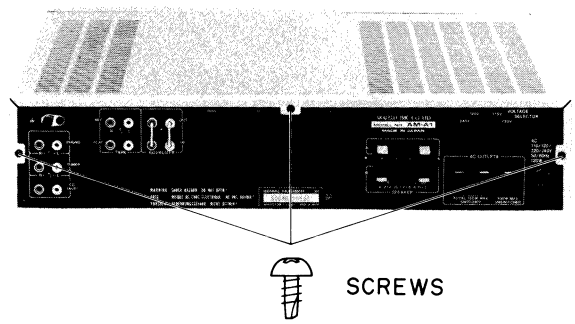

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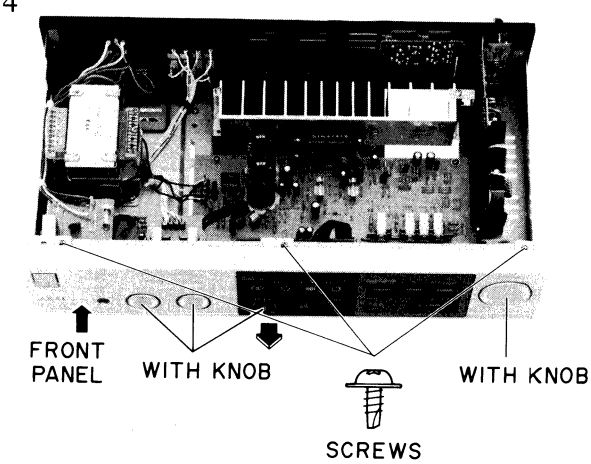

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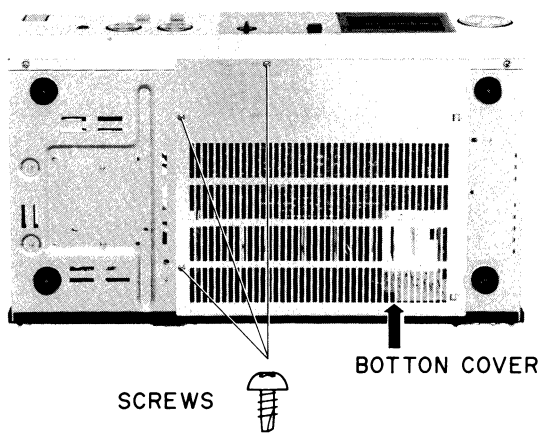

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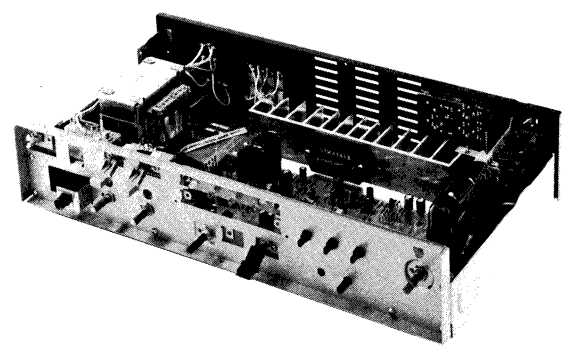

III. CONTROLS

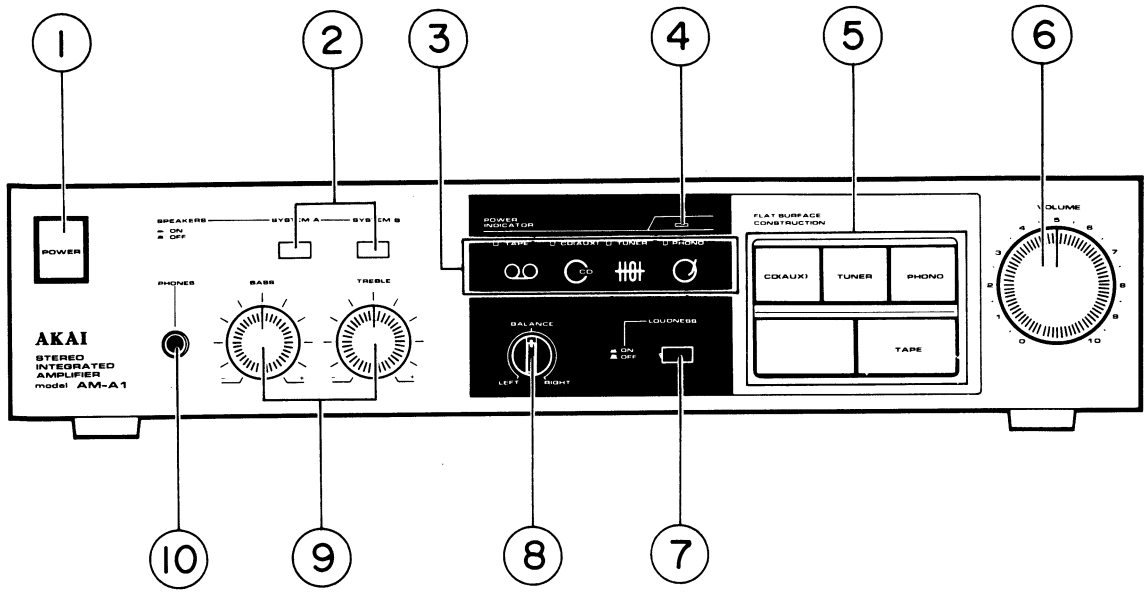

Fig. 3-1

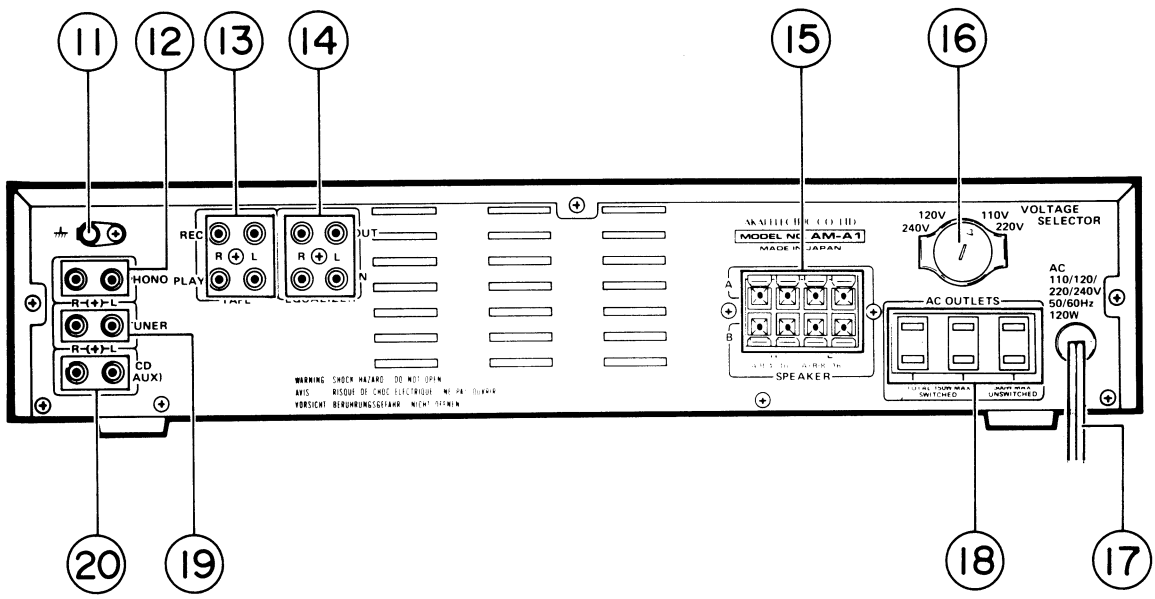

Fig. 3-2

1. POWER SWITCH
2. SPEAKER SELECTOR BUTTONS (SYSTEM A AND SYSTEM B)
3. INPUT SOURCE INDICATORS
4. POWER INDICATOR
5. INPUT SOURCE SELECTOR BUTTONS (PHONO, TUNER, CD (AUX) AND TAPE)
6. VOLUME CONTROL
7. LOUDNESS SWITCH
8. BALANCE CONTROL
9. TONE CONTROLS
10. HEADPHONE JACK
11. GROUND TERMINAL
12. PHONO JACKS
13. TAPE JACKS (REC AND PLAY)
14. EQUALIZER JACKS (IN AND OUT)
15. SPEAKER TERMINALS
16. VOLTAGE SELECTOR SWITCH (U MODEL ONLY)
17. AC POWER CORD
18. AC OUTLETS (U,C,A MODELS ONLY)
19. TUNER JACKS
20. CD (AUX) JACKS

IV. PRINCIPAL PARTS LOCATION

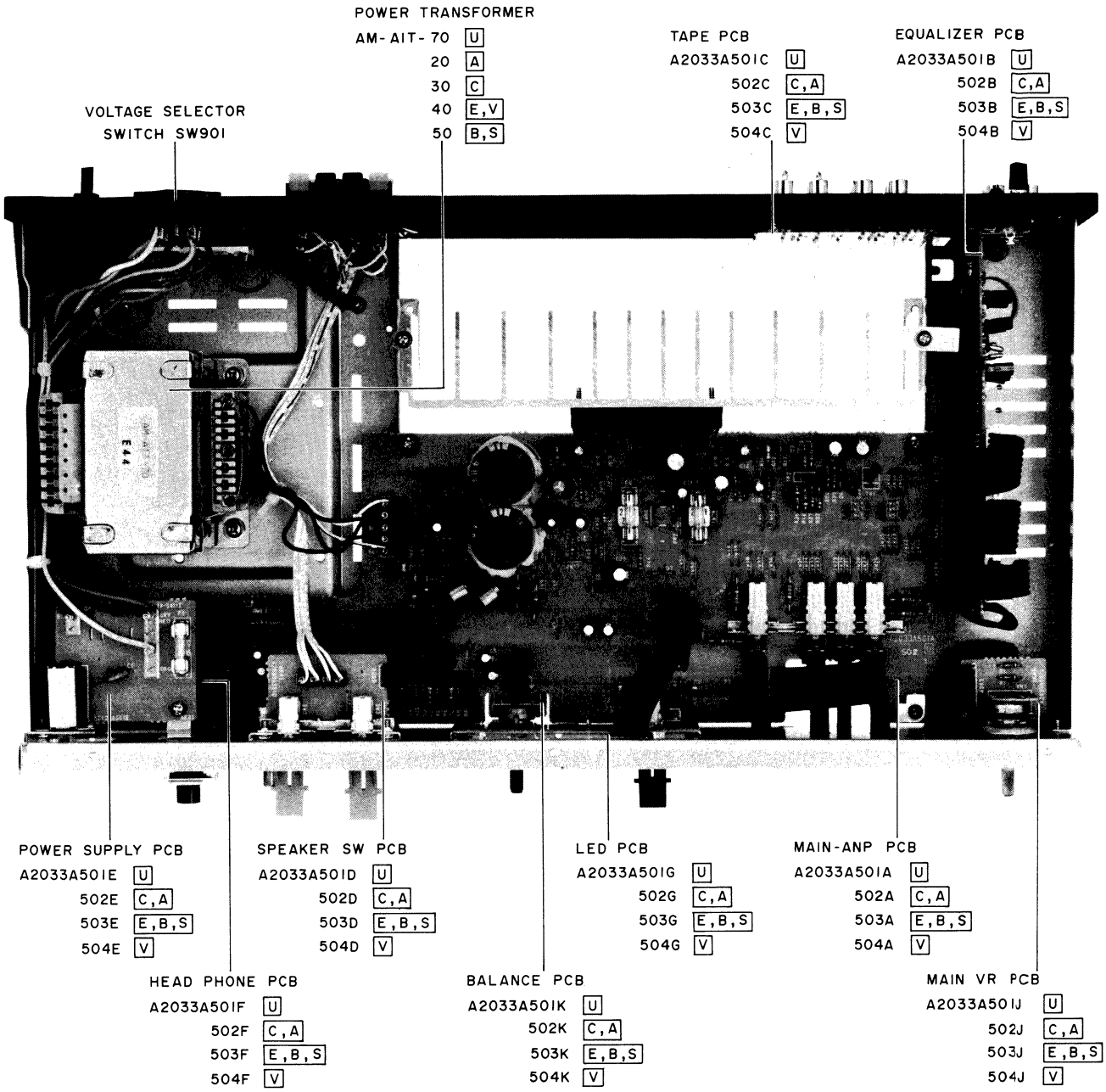

Fig. 4-1 Top View (U model)

V. ADJUSTMENT

No Adjustment is Necessary for this model.

VI. PC BOARD TITLE AND IDENTIFICATIONS

PC BOARD TITLE	PC BOARD NUMBER	REMARKS
MAIN AMP PC BOARD	A2033A501A	U
	502A	C, A
	503A	E, B, S
	504A	V
EQUALIZER PC BOARD	A2033A501B	U
	502B	C, A
	503B	E, B, S
	504B	V
TAPE PC BOARD	A2033A501C	U
	502C	C, A
	503C	E, B, S
	504C	V
SPEAKER SW PC BOARD	A2033A501D	U
	502D	C, A
	503D	E, B, S
	504D	V
POWER SUPPLY PC BOARD	A2033A501E	U
	502E	C, A
	503E	E, B, S
	504E	V
HEADPHONE PC BOARD	A2033A501F	U
	502F	C, A
	503F	E, B, S
	504F	V
LED PC BOARD	A2033A501G	U
	502G	C, A
	503G	E, B, S
	504G	V
FILTER PC BOARD	A2033A504H	V
SPEAKER TERMINAL PC BOARD	A2031D5070	V
MAIN VR PC BOARD	A2033A501J	U
	502J	C, A
	503J	E, B, S
	504J	V
BALANCE PC BOARD	A2033A501K	U
	502K	C, A
	503K	E, B, S
	504K	V

SECTION 2

PARTS LIST

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4. TAPE PC BOARD 13
5. LED PC BOARD 13
6. SPEAKER SWITCH PC BOARD 13
7. MAIN VR PC BOARD 13
8. BALANCE PC BOARD 13
9. SPEAKER TERMINAL PC BOARD 13
10. HEAD PHONE PC BOARD 13
11. POWER SUPPLY PC BOARD 13
12. FILTER PC BOARD (V ONLY) 13
13. ASSEMBLY BLOCK 14
14. FINAL ASSEMBLY BLOCK 15
INDEX 16

Resistor and Capacitor which is not listed in this parts list, please refer to COMMON LIST FOR SERVICE PARTS.

ATTENTION

1. When placing an order for parts, be sure to list the parts no. model no., and description. There are instances in which if any of this information is omitted, parts cannot be shipped or the wrong parts will be delivered.
2. Please be careful not to make a mistake in the parts no. If the parts no. is in error, a part different from the one ordered may be delivered.
3. Because parts number and parts unit supply in the Preliminary Parts List may be partially changed, please use this parts list for all future reference.

HOW TO USE THIS PARTS LIST

1. This Parts List shows the parts that are considered necessary for repairs. Other parts, such as resistors and capacitors, are shown in the "Common List for Service Parts". Select and order such parts from the "Common List for Service Parts".
2. The Recommended Spare Parts shows those parts in the Parts List which are considered particularly important for service.
3. Parts not shown in the Parts List and "Common List for Service Parts" will not be supplied in principle.
4. How to read list

a) Mechanism Block

2. HEAD BASE BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
2-1x	BH-T2023A320A	HEAD BASE BLOCK GX-F66R
2-2	HP-H2206A010A	HEAD R/P PR4-8FU C
2-3	ZS-477876	PAN20x03STL CMT
2-4	ZS-536488	BID20x08STL CMT
2-5	ZG-402895	CS ANGLE ADJUST SPRING

- SP (Service Parts) Classification
- A small "x" indicates the inability to show that particular part in the Photo or Illustration.
- This number corresponds with the individual parts index number in that figure
- This number corresponds with the Figure Number

b) P.C Board Block

6. SYS. CON. P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
6-1	BA-T2034A070A	PC SYS CON BLK GX-F44R
6-IC1	EI-324536	IC HD14049BP
6-IC2	EI-336801	IC MB8841-564M
6-IC3	EI-331661	IC SN7405N
6-IC4	EI-336725	IC M54527P
6-TR1to4	ET-200985	TR 2SC2603 F,G
6-TR5to28	ET-554657	TR 2SA733A P,Q
6-D1	ED-318292	D SILICON H 1S2473T-77 T26
6-D2to4	ED-308952	D GERMA V 1K34A-LR F07
6-D5to10	ED-318292	D SILICON H 1S2473T-77 T26
6-X1	EI-318384	OSC X'TAL NC-18C 3.579545MHZ

- SP (Service Parts) Classification
- This reference numbers corresponds with symbol numbers of Schematic Diagrams.

5. Both the kind of part and installation position can be determined by the Parts Number. To determine where a parts number is listed, utilize Parts Index at end of Parts List. It is necessary first of all to find the Parts Number. This can be accomplished by using the Reference Number listed at right of parts number in the Parts Index.

WARNING

⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS

AVERTISSEMENT

⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

RECOMMENDED SPARE PARTS

Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

REF. NO.	PARTS NO.	DESCRIPTION
1	BT-352429	⚠ TRANS POWER AM-A1T-20 (A)
2	BT-352428	⚠ TRANS POWER AM-A1T-30 (C)
3	BT-352430	⚠ TRANS POWER AM-A1T-40 (E,V)
4	BT-352431	⚠ TRANS POWER AM-A1T-50 (B,S)
5	BT-352426	⚠ TRANS POWER AM-A1T-70 (U)
6	ED-349656	D LED AY5505S
7	ED-337391	D LED GL5NG6 GRN
8	ED-200213	D SILICON DBA40C-K15 200/2.6A
9	ED-301911	D SILICON H DS448
10	ED-306320	D ZENER H HZ15 2
11	ED-324013	D ZENER H HZ20 2
12	ED-329056	D ZENER H HZ22 2
13	EF-602550	⚠ FUSE SEMKO T 250V 1.25A (E,V,B,S)
14	EF-601964	⚠ FUSE SEMKO T 250V 1.60A (E,V,B,S)
15	EF-690996	⚠ FUSE SEMKO T 250V 4.00A (E,V,B,S)
16	EF-306951	⚠ FUSE TSC A 250V 2.50A (U)
17	EF-326639	⚠ FUSE TSC A 250V 3.15A (U)
18	EF-306954	⚠ FUSE TSC 125V 2.00A (C)
19	EF-306956	⚠ FUSE TSC 125V 2.50A (C,A)
20	EF-346139	⚠ FUSE TSC 125V 5.00A (C,A)
21	EI-337228	IC M5218L0
22	EI-344764	IC M5218P-21
23	EI-352644	IC STK4141-2
24	ER-328278	⚠ R FUSE ERD2FC 1/4W 10R0G
25	ER-200746	⚠ R FUSE ERD2FC 1/4W 1000G
26	ES-349070	⚠ SW SELECTOR YKS11-0002 02-4 (U) (SW901)
27	ES-352624	SW PUSH ESB-62838 2 THROW
28	ES-352619	SW PUSH ESB-62840 4 THROW
29	ES-352620	SW PUSH ESB-62922 02-2 S
30	ES-337902	SW PUSH SDLD1P 01-1
31	ET-349882	TR 2SA1283 D,E
32	ET-349883	TR 2SC3243 D,E
33	EV-352622	VR ROTARY 16P10×1T W105
34	EV-352621	VR ROTARY 16P20× B104
35	EV-352623	VR ROTARY 16P20×3Q C104

SYMBOL FOR DESTINATION

A : AAL (U.S.A.)
B : UK (England)
C : CSA (Canada)
E : CEE (Europe)
S : SAA (Australia)
U : U/T (Universal Area)
V : VDE (West Germany)

1. PC BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
	MAIN PC BOARD BLOCK	
1-1A	BA-A2033A020A	PC MAIN BLK AM-A1 (U)
1-1B	BA-A2033A020B	PC MAIN BLK AM-A1 (C,A)
1-1C	BA-A2033A020C	PC MAIN BLK AM-A1 (E,B,S)
1-1D	BA-A2033A020D	PC MAIN BLK AM-A1 (V)
1-1E	BA-A2033A020E	PC MAIN BLK AM-A1 (A)

NOTE: MAIN PC BOARD BLOCK CONSISTS OF FOLLOWING PC BOARDS.

A MAIN AMP PC BOARD
B EQUALIZER PC BOARD
C TAPE PC BOARD
D SPEAKER SWITCH PC BOARD
E POWER SUPPLY PC BOARD
F HEAD PHONE PC BOARD
G LED PC BOARD
H FILTER PC BOARD
I MAIN VR PC BOARD
J BALANCE PC BOARD

2. MAIN AMP PC BOARD

REF. NO.	PARTS NO.	DESCRIPTION
2-IC1	EI-337228	IC M5218L0
2-IC2	EI-352644	⚠ IC STK4141-2
2-TR1	ET-349883	⚠ TR 2SC3243 D,E
2-TR2	ET-349882	⚠ TR 2SA1283 D,E
2-D2, 4	ED-324013	⚠ D ZENER H HZ20 2
2-D5	ED-200213	⚠ D SILICON DBA40C-K15 200/2.6A
2-D6	ED-301911	D SILICON H DS448
2-D7	ED-329056	D ZENER H HZ22 2
2-SW1	ES-352619	SW PUSH ESB-62840 4THROW
2-SW2	ES-352620	SW PUSH ESB-62922 02-2 S
2-VR1, 2	EV-352623	VR ROTARY 16P20×3Q C104
2-L1	EO-336902	COIL DET 2 106AK-026 1R0K
2-FR1	ER-328278	⚠ R FUSE ERD2FC 1/4W 10R0G
2-FR2	ER-200746	⚠ R FUSE ERD2FC 1/4W 1000G
2-R21	ER-325269	⚠ R CB H S10 FS RDS 1/4W 222J
2-R22	ER-308875	⚠ R CB H S15 FS RDS 1/2W 100J
2-R24	ER-333355	⚠ R CB H S10 FS RDS 1/4W 103J
2-R25	ER-308028	⚠ R OMF H S15 FS 1W 181J
2-R26	ER-308875	⚠ R CB H S15 FS RDS 1/2W 100J
2-R27 to 31	ER-333654	⚠ R CB H S15 FS RDS 1/2W 332J
2-R32	ER-333376	⚠ R CB H S10 FS RDS 1/4W 162J
2-R33	ER-327198	⚠ R CB H S10 FS RDS 1/4W 122J
2-R34	ER-325269	⚠ R CB H S10 FS RDS 1/4W 222J
2-R35	ER-302241	⚠ R CB H S10 FS RDS 1/4W 4R7J
2-R36	ER-353214	R CB H RD 1/2W 103J
2-R37	ER-333376	⚠ R CB H S10 FS RDS 1/4W 162J
2-R38	ER-327198	⚠ R CB H S10 FS RDS 1/4W 122J
2-R39	ER-325269	⚠ R CB H S10 FS RDS 1/4W 222J
2-R40	ER-302241	⚠ R CB H S10 FS RDS 1/4W 4R7J
2-R41	ER-353214	R CB H RD 1/2W 103J
2-R44	ER-328082	R CB H S10 FS RDS 1/4W 332J
2-C27	EC-326583	C MMY V CUT CF921 473K 400DC

3. EQUALIZER PC BOARD

REF. NO.	PARTS NO.	DESCRIPTION
3-IC1	EI-344764	IC M5218P-21
3-D1	ED-306320	D ZENER H HZ15 2
3-L1	EO-338420	COIL FIX 2 FL12R202E 202K (V)
3-L2,3	EO-336934	COIL FIX 1 LAL03KH 2R2M (V)
3-R7	ER-322331	⚠ R CB H S10 FS RDS 1/4W 821J
3-J1	EJ-344370	PIN J YKC21-0081 P 6P

4. TAPE PC BOARD

REF. NO.	PARTS NO.	DESCRIPTION
4-L1 to 6	EO-336934	COIL FIX 1 LAL03KH 2R2M (V)
4-J1,2	EJ-343365	PIN J YMC21-0063 P 4P

5. LED PC BOARD

REF. NO.	PARTS NO.	DESCRIPTION
5-D1	ED-349656	D LED AY5505S
5-D2 to 4	ED-337391	D LED GL5NG6 GRN
5-D5	ED-349656	D LED AY5505S

6. SPEAKER SWITCH PC BOARD

REF. NO.	PARTS NO.	DESCRIPTION
6-SW3	ES-352624	SW PUSH ESB-62838 2 THROW

7. MAIN VR PC BOARD

REF. NO.	PARTS NO.	DESCRIPTION
7-VR1	EV-352621	VR ROTARY 16P20x B104

8. BALANCE PC BOARD

REF. NO.	PARTS NO.	DESCRIPTION
8-VR1	EV-352622	VR ROTARY 16P10x1T W105

9. SPEAKER TERMINAL PC BOARD

REF. NO.	PARTS NO.	DESCRIPTION
9-L1	EO-342936	COIL BALUN
9-TM902	EJ-349401	TERMINAL LEVER YKD21-0027 8P

10. HEAD PHONE PC BOARD

REF. NO.	PARTS NO.	DESCRIPTION
10-L1	EO-336934	COIL FIX 1 LAL03KH 2R2M (V)
10-J1A	EJ-343380	PHONE J 3P HLJ0541-040 6.3 (EXCEPT BL)
10-J1B	EJ-355012	PHONE J 3P HLJ0541-010 6.3 (BL)

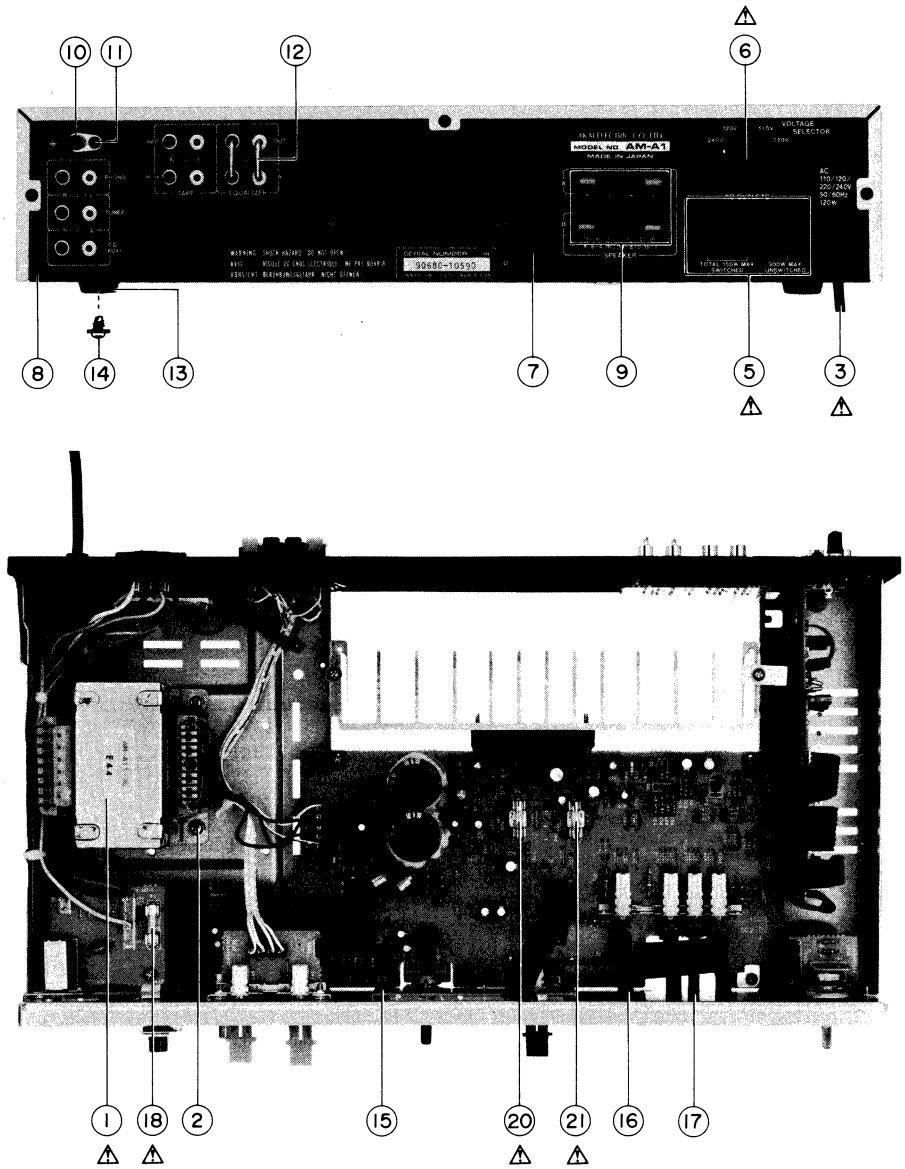
11. POWER SUPPLY PC BOARD

REF. NO.	PARTS NO.	DESCRIPTION
11-SW1	ES-337902	⚠ SW PUSH SDLD1P 01-1
11-C1A	EC-320548	⚠ C CE V F 103Z 250AC (U)
11-C1B	EC-338411	⚠ C CE V FZ 103P 400AC (C,A)
11-C1C	EC-338496	⚠ C CE V FZ 472P 400AC (E,V,B,S)

12. FILTER PC BOARD (V ONLY)

REF. NO.	PARTS NO.	DESCRIPTION
12-L1	EO-338409	COIL LF FKOB160MH02 250UH (V)

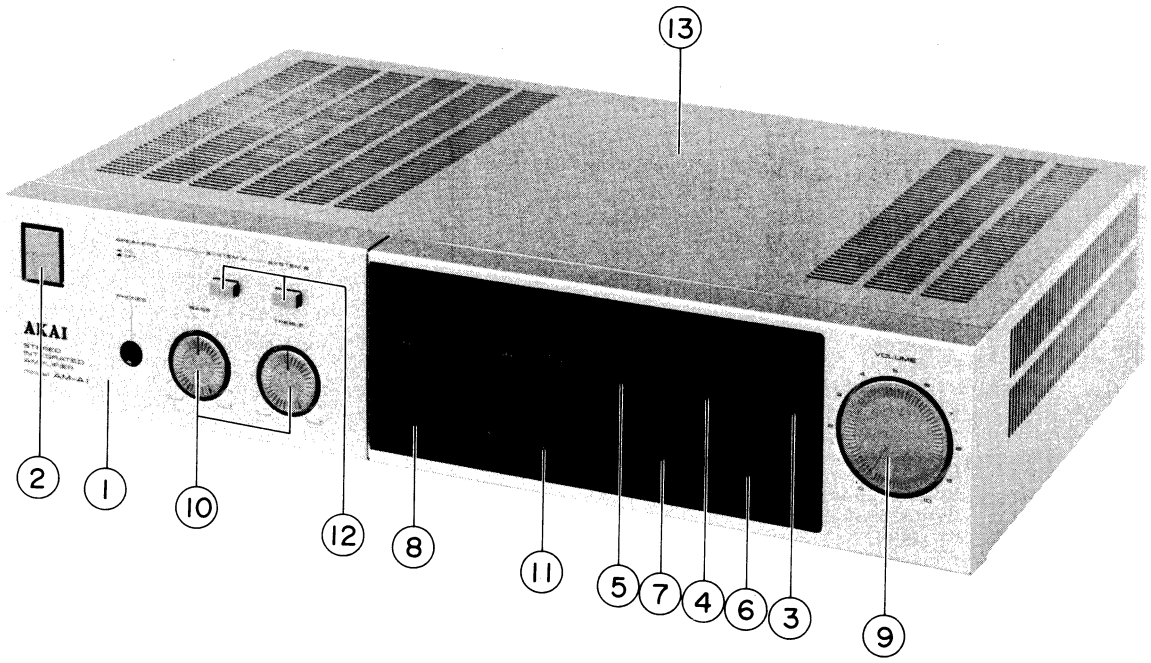
ASSEMBLY BLOCK



13. ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
13-1A	BT-352426	⚠ TRANS POWER AM-A1Y-70 (U)
13-1B	BT-352428	⚠ TRANS POWER AM-A1T-30 (C)
13-1C	BT-352429	⚠ TRANS POWER AM-A1T-20 (A)
13-1D	BT-352430	⚠ TRANS POWER AM-A1T-40 (E,V)
13-1E	BT-352431	⚠ TRANS POWER AM-A1T-50 (B,S)
13-2	ZS-346732	⚠ ST BID40×08STL CMT CUP
13-3A	EW-354515	⚠ AC CORD 2 CORES KP-700A, VFF-CB U/T (U)
13-3B	EW-349427	⚠ AC CORD 2 CORES KP-8W, SPT-2 UC (C)
13-3C	EW-349428	⚠ AC CORD 2 CORES KP-8W, SPT-1 UC (A)
13-3D	EW-354625	⚠ AC CORD 2 CORES KP-419C, LTCE-2F E (E)
13-3E	EW-354513	⚠ AC CORD 2 CORES KP-419C, LTCE-2F EV (V)
13-3F	EW-354512	⚠ AC CORD 2 CORES LTBS-2F CB B (B)
13-3G	EW-354514	⚠ AC CORD 2 CORES KP-560, LTSA2F-CB S (S)
13-4X	EZ-631945	STRAIN RELIEF SR-4N 4 (C,A)
13-5A	EJ-337405	⚠ SOCKET OUTLET S2T733T164 JUC 3×2P (U) (J901)
13-5B	EJ-352642	⚠ SOKET OUTLET S2T733T114T (C,A) (J901)
13-6	ES-349070	⚠ SW SELECTOR YKS11-0002 02-4 (U)
13-7A	SP-349930J	PANEL REAR AM-A1 (U)
13-7B	SP-349930K	PANEL REAR AM-A1 (C,A)
13-7C	SP-349930L	PANEL REAR AM-A1 (E,V)
13-7D	SP-349930M	PANEL REAR AM-A1 (B,S)
13-8	ZS-308846	T2BR30×08STL BZN PROJECTION
13-9A	EJ-351485	TERMINAL PUSH YKD21-0148A S 8P (EXCEPT V)
13-9B	EJ-349401	TERMINAL LEVER YKD21-0027 8P (V)
13-10	EJ-329610	TERMINAL W/SCREW UB-0067 L 1P
13-11	ZS-308846	T2BR30×08STL BZN PROJECTION
13-12	EJ-348218	PLUG SHORT PIN P2138
13-13	SA-202118	FOOT
13-14	ZS-498273	T2BR30×08STL CMT PW080
13-15	ZW-698308	RV NYL30×055 BL
13-16	TA-349937	JOINT (B)

FINAL ASSEMBLY BLOCK



14. FINAL ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
14-1	BD-A2033A030A	PANEL FRONT BLK AM-A1
14-1P	BD-A2033A030B	PANEL FRONT BLK AM-A1-P
14-1B	BD-A2033A030C	PANEL FRONT BLK AM-A1-B
14-2	SK-343017C	KNOB POWER (2)
14-2P	SK-343017B	KNOB POWER-P
14-2B	SK-343017F	KNOB POWER-B
14-3	SK-349943A	KNOB (C-1) (EXCEPT BL)
14-3B	SK-349943D	KNOB (C-1)-B (BL)
14-4	SK-349943B	KNOB (C-2) (EXCEPT BL)
14-4B	SK-349943E	KNOB (C-2)-B (BL)
14-5	SK-349943C	KNOB (C-3) (EXCEPT BL)
14-5B	SK-349943F	KNOB (C-3)-B (BL)
14-6	SK-349941C	KNOB (D-3) (EXCEPT BL)
14-6B	SK-349941D	KNOB (D-3)-B (BL)
14-7	SK-349946	KNOB (E) (EXCEPT BL)
14-7B	SK-349946B	KNOB (E)-B (BL)
14-8	SK-332591A	KNOB VOLUME (A) (EXCEPT BL)
14-8B	SK-332591E	KNOB VOLUME (A-5) (BL)
14-9	SK-345375G	KNOB VOLUME (E)
14-9P	SK-345375D	KNOB VOLUME (B)-P
14-9B	SK-35375K	KNOB VOLUME (H) (BL)
14-10	SK-349939A	KNOB (A)
14-10P	SK-349939B	KNOB (A)-P
14-10B	SK-349939C	KNOB (A)-B (BL)
14-11	SK-349940A	KNOB (B-1)
14-12	SK-349940B	KNOB (B-2)
14-12P	SK-349940C	KNOB (B-3)
14-12B	SK-349940A	KNOB (B-1) (BL)
14-13	SP-349925A	COVER UPPER
14-13P	SP-349925B	COVER UPPER-P
14-13B	SP-349925C	COVER UPPER-B

NOTE: SYMBOL FOR COLOR VARIATION
NON : STANDARD COLOR
P : PEARL SHADOW
B or BL : BLACK

REF. NO.	PARTS NO.	DESCRIPTION
13-17	TA-349938	JOINT (C)
13-18A	EF-326639	⚠ FUSE TSC A 250V 3.15A (U) (F1)
13-18B	EF-306956	⚠ FUSE TSC 125V 2.50A (C,A) (F1)
13-18C	EF-602550	⚠ FUSE SEMKO T 250V 1.25A (E,V,B,S) (F1)
13-19A	EF-346139	⚠ FUSE TSC 125V 5.00A (C,A) (F3)
13-19B	EF-690996	⚠ FUSE SEMKO T 250V 4.00A (E,V,B,S) (F3)
13-20A	EF-306951	⚠ FUSE TSC A 250V 2.50A (U) (F4)
13-20B	EF-306954	⚠ FUSE TSC 125V 2.00A (C) (F4)
13-20C	EF-306956	⚠ FUSE TSC 125V 2.50A (A) (F4)
13-20D	EF-601964	⚠ FUSE SEMKO T 250V 1.60A (E,V,B,S) (F4)
13-21A	EF-306951	⚠ FUSE TSC A 250V 2.50A (U) (F5)
13-21B	EF-306954	⚠ FUSE TSC 125V 2.00A (C) (F5)
13-21C	EF-306956	⚠ FUSE TSC 125V 2.50A (A) (F5)
13-21D	EF-601964	⚠ FUSE SEMKO T 250V 1.60A (E,V,B,S) (F5)
13-22X	ZW-305013	RV POP 32 (A)

INDEX

PARTS NO.	REF.NO.	PARTS NO.	REF. NO.	PARTS NO.	REF. NO.	PARTS NO.	REF. NO.	PARTS NO.	REF. NO.
BA-A2033A020A	1-1A	ER-327198	2-R38						
BA-A2033A020B	1-1B	ER-328082	2-R44						
BA-A2033A020C	1-1C	ER-328278	2-FR1						
BA-A2033A020D	1-1D	ER-333355	2-R24						
BA-A2033A020E	1-1E	ER-333376	2-R32						
BD-A2033A030A	14-1	ER-333376	2-R37						
BD-A2033A030B	14-1P	ER-333654	2-R28						
BD-A2033A030C	14-1B	ER-333654	2-R27						
BT-352426	13-1A	ER-333654	2-R29						
BT-352428	13-1B	ER-333654	2-R30						
BT-352429	13-1C	ER-333654	2-R31						
BT-352430	13-1D	ER-353214	2-R36						
BT-352431	13-1E	ER-353214	2-R41						
EC-320548	11-C1A	ES-337902	11-SW1						
EC-326583	2-C27	ES-349070	13-6						
EC-338411	11-C1B	ES-352619	2-SW1						
EC-338496	11-C1C	ES-352620	2-SW2						
ED-200213	2-D5	ES-352624	6-SW3						
ED-301911	2-D6	ET-349882	2-TR2						
ED-306320	3-D1	ET-349883	2-TR1						
ED-324013	2-D2	EV-352621	7-VR1						
ED-324013	2-D4	EV-352622	8-VR1						
ED-329056	2-D7	EV-352623	2-VR1						
ED-337391	5-D2	EV-352623	2-VR2						
ED-337391	5-D3	EW-349427	13-3B						
ED-337391	5-D4	EW-349428	13-3C						
ED-349656	5-D1	EW-354512	13-3F						
ED-349656	5-D5	EW-354513	13-3E						
EF-306951	13-21A	EW-354514	13-3G						
EF-306951	13-20A	EW-354515	13-3A						
EF-306954	13-21B	EW-354625	13-3D						
EF-306954	13-20B	EZ-631945	13-4x						
EF-306956	13-20C	SA-202118	13-13						
EF-306956	13-21C	SK-332591A	14-8						
EF-306956	13-18B	SK-332591E	14-8B						
EF-326639	13-18A	SK-343017B	14-2P						
EF-346139	13-19A	SK-343017C	14-2						
EF-601964	13-20D	SK-343017F	14-2B						
EF-601964	13-21D	SK-345375D	14-9P						
EF-602550	13-18C	SK-345375G	14-9						
EF-690996	13-19B	SK-345375K	14-9B						
EI-337228	2-IC1	SK-349939A	14-10						
EI-344764	3-IC1	SK-349939B	14-10P						
EI-352644	2-IC2	SK-349939C	14-10B						
EJ-329610	13-10	SK-349940A	14-11						
EJ-337405	13-5A	SK-349940A	14-12B						
EJ-343365	4-J1	SK-349940B	14-12						
EJ-343365	4-J2	SK-349940C	14-12P						
EJ-343380	10-J1A	SK-349941C	14-6						
EJ-344370	3-J1	SK-349941D	14-6B						
EJ-348218	13-12	SK-349943A	14-3						
EJ-349401	9-TM902	SK-349943B	14-4						
EJ-349401	13-9B	SK-349943C	14-5						
EJ-351485	13-9A	SK-349943D	14-3B						
EJ-352642	13-5B	SK-349943E	14-4B						
EJ-355012	10-J1B	SK-349943F	14-5B						
EO-336902	2-L1	SK-349946	14-7						
EO-336934	3-L2	SK-349946B	14-7B						
EO-336934	3-L3	SP-349925A	14-13						
EO-336934	4-L3	SP-349925B	14-13P						
EO-336934	4-L4	SP-349925C	14-13B						
EO-336934	4-L5	SP-349930J	13-7A						
EO-336934	4-L6	SP-349930K	13-7B						
EO-336934	4-L1	SP-349930L	13-7C						
EO-336934	4-L2	SP-349930M	13-7D						
EO-336934	10-L1	TA-349937	13-16						
EO-338409	12-L1	TA-349938	13-17						
EO-338420	3-L1	ZS-308846	13-8						
EO-342936	9-L1	ZS-308846	13-11						
ER-200746	2-FR2	ZS-346742	13-2						
ER-302241	2-R35	ZS-498273	13-14						
ER-302241	2-R40	ZW-305013	13-22x						
ER-308028	2-R25	ZW-698308	13-15						
ER-308875	2-R22								
ER-308875	2-R26								
ER-322331	3-R7								
ER-325269	2-R21								
ER-325269	2-R34								
ER-325269	2-R39								
ER-327198	2-R33								

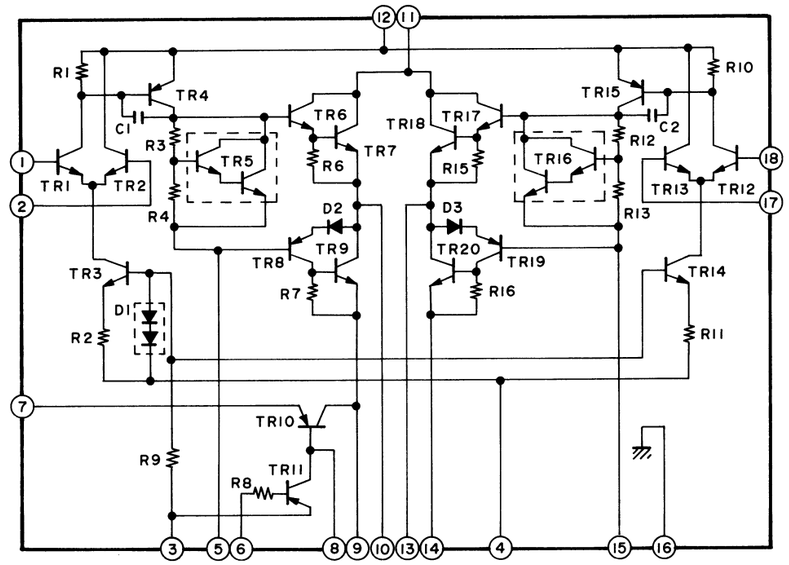
AKAI

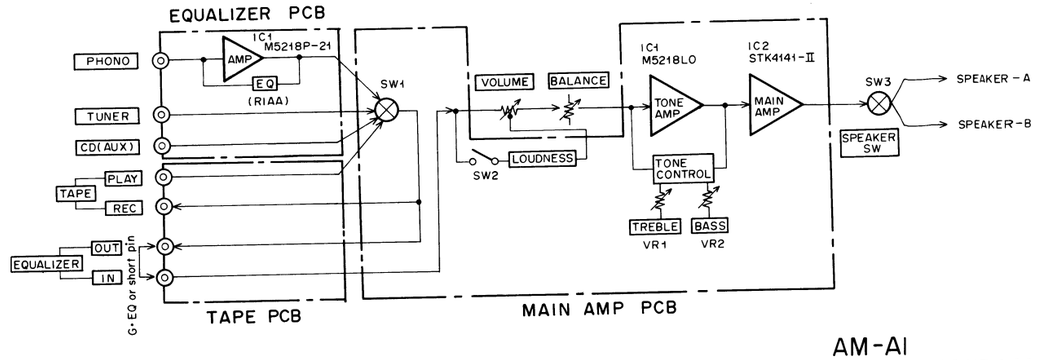
MODEL AM-A1

PC BOARD
SCHEMATIC DIAGRAM

1. SCHEMATIC DIAGRAM OF ICs 2
2. AM-A1 NO.840801A BLOCK DIAGRAM 2
3. AM-A1 NO.840802A SCHEMATIC DIAGRAM 3
4. MAIN AMP PC BOARD A2033A501A(U)(2ED), A2033A502A(C,A), A2033A503A(E,B,C), A2033A504A(V) 4
5. EQUALIZER PC BOARD A2033A501B(U), A2033A502B(C,A), A2033A503B(E,B,S), A2033A504B(V) 4
6. OTHER PC BOARDS 5

STK4141–II





AM-AI
BLOCK DIAGRAM
NO. 840801A

AM-AI

BALANCE PCB
A2033A501K [U]
A2033A502K [C,A]
A2033A503K [E,B,S]
A2033A504K [V]

MAIN VR PCB
A2033A501J [U]
A2033A502J [C,A]
A2033A503J [E,B,S]
A2033A504J [V]

SPEAKER SW PCB
A2033A501D [U]
A2033A502D [C,A]
A2033A503D [E,B,S]
A2033A504D [V]

SPEAKER TERMINAL PCB
A2031D5070 [V]

HEAD PHONE PCB
A2033A501F [U]
A2033A502F [C,A]
A2033A503F [E,B,S]

HEAD PHONE PCB
A2033A504F [V]

POWER SUPPLY PCB
A2033A504E [V]
FILTER PCB
A2033A504H [V]

POWER SUPPLY PCB
A2033A503E [E]
A2033A503E [B,S]

POWER SUPPLY PCB
A2033A502E [C,A]

POWER SUPPLY PCB
A2033A501E [U]

EQUALIZER PCB(1/2)
A2033A501B [U]
A2033A502B [C,A]
A2033A503B [E,B,S]
A2033A504B [V]

TAPE PCB
A2033A501C [U]
A2033A502C [C,A]
A2033A503C [E,B,S]
A2033A504C [V]

EQUALIZER PCB (2/2)

LED PCB
A2033A501G [U]
A2033A502G [C,A]
A2033A503G [E,B,S]
A2033A504G [V]

MAIN AMP PCB
A2033A501A [U]
A2033A502A [C,A]
A2033A503A [E,B,S]
A2033A504A [V]

MAIN AMP PCB

VR1 : TREBLE
VR2 : BASS

SW1-1 to SW1-4 OFF — ON

SW2 LOUDNESS OFF — ON

SW3 OFF — ON

B (POWER SUPPLY) LINE

SIGNAL LINE

SIGNAL LINE IS INDICATED LEFT CHANNEL ONLY AT PHONO MODE.

V MODEL ONLY

* [V] MODEL : AFTER SERIAL NUMBER. 90670-01701
OTHER MODEL : AFTER SERIAL NUMBER. 90720-05501

VOLTAGES ARE INDICATED AT CD(AUX) MODE. (VOLUME MIN., TONE FLAT, SP OFF, LOUDNESS OFF.)

2SA1283
2SC3243

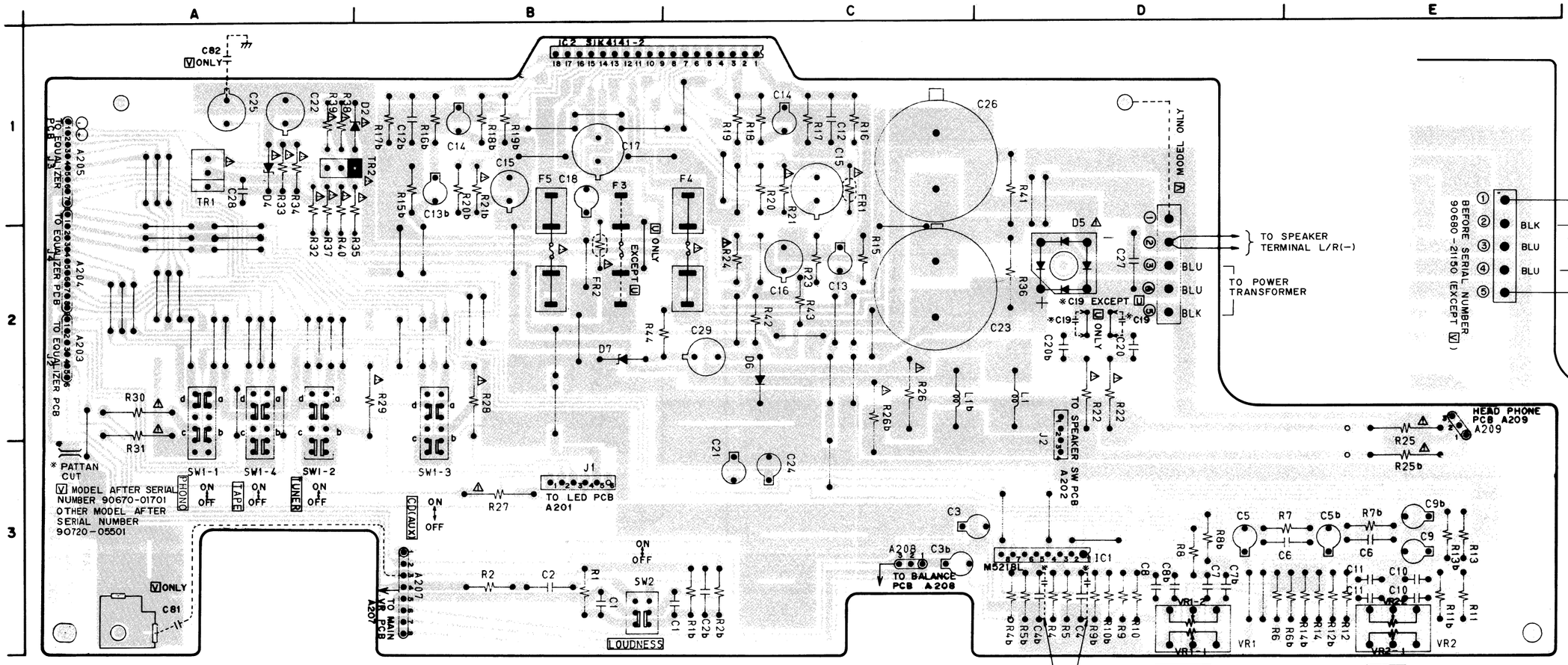
	U	C	A	E,V,B,S
F 1	3.15A/250V	2.5A/125A	2.5A/125V	T1.25V
F 3	SHORT	5A/125A	5A/125V	T4A
F 4	2.5A/250V	2A/125A	2.5A/125V	T1.6A
F 5	2.5A/250V	2A/125A	2.5A/125V	T1.6A

WARNING ⚠ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.
AVERTISSEMENT ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SECURITE. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL, NE REMPLACER QUE DES PIECES RECOMMANDEES PAR LE FABRICANT.

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W(J)
ALL CAPACITORS IN μF 50WV(J)

001545

AM-AI
SCHEMATIC DIAGRAM
NO. 840802A
4C


A B C D E
1 2 3
IC2 SIK4141-2
18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
C82 V ONLY
C25 C22 C28 TR1 TR2
D2 D4 R33 R34 R32 R37 R40 R35
C12b C16b C14 C18b C15 C17 C13b C15b R15b R20b R21b R17b R16b R18b R19b
F5 C18 F3 F4 EXCEPT U ONLY FR1 FR2
C26 C23 R41 R36 R19 R18 R17 R16 R20 R21 R15 R24 R23 R43 R42 R44 C16 C13 C29 D7 D6 R26 R26b L1 L1b
D5 C27 C20b C20 *C19 EXCEPT U ONLY *C19 *C19
MW MODEL ONLY
TO SPEAKER TERMINAL L/R(-)
TO POWER TRANSFORMER
BLU BLU BLK
TO SPEAKER TERMINAL LEFT(-)
BLK BLU BLU
TO POWER TRANSFORMER
TO SPEAKER TERMINAL RIGHT(-)
BEFORE SERIAL NUMBER 90680-21150 (EXCEPT V)
A205 A204 A203
TO EQUALIZER PCB J3
TO EQUALIZER PCB
TO EQUALIZER PCB
R30 R31 R29 R28 R27
SW1-1 SW1-4 SW1-2 SW1-3
PHONO TAPE TUNER CD(AUX)
ON OFF
* PATTAN CUT
V MODEL AFTER SERIAL NUMBER 90670-01701
OTHER MODEL AFTER SERIAL NUMBER 90720-05501
J1
TO LED PCB A201
TO SPEAKER SW PCB A202
J2
HEAD PHONE PCB A209
A209
R25 R25b
A208 C3b C3
TO BALANCE PCB A208
IC1 M5218L
C8 C8b R8 R8b C7 C7b C5 R7 R7b C5b C6 C9b C9 R13 R13b
C4b C4 R5b R5 R4b R4 C10b C10 R9b R9 R10 C11 R11 R11b
VR1 VR2 R6 R6b R14b R14 R12b R12
TREBLE BASS
A207 TO MAIN VR PCB A207
R2 C2 R1 C1 SW2 LOUDNESS
R1b R2b C1b C2b
C81 V ONLY

MAIN AMP PCB A2033A501A U (2ED)
502A C,A
503A E,B,C
504A V

For V mobel only, the Capacitor C4 is divided on pattern side and parts side before July production lot. (Serial number : 90670-02100)

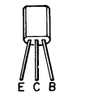
LOCATION OF COMPONENTS

IC
IC1 -------D3
IC2 -------B1, C1

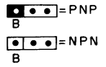
TR
TR1,2 -----A1

TERMINAL
J1 --------B3
J2 --------D2, D3
A203, A204 --A2
A205 -------A1
A207 -------B3
A208 -------C3
A209 -------E2
①---------D1
②to⑤------D2

TR1 2SC3243(D,E)
TR2 2SA1283(D,E)

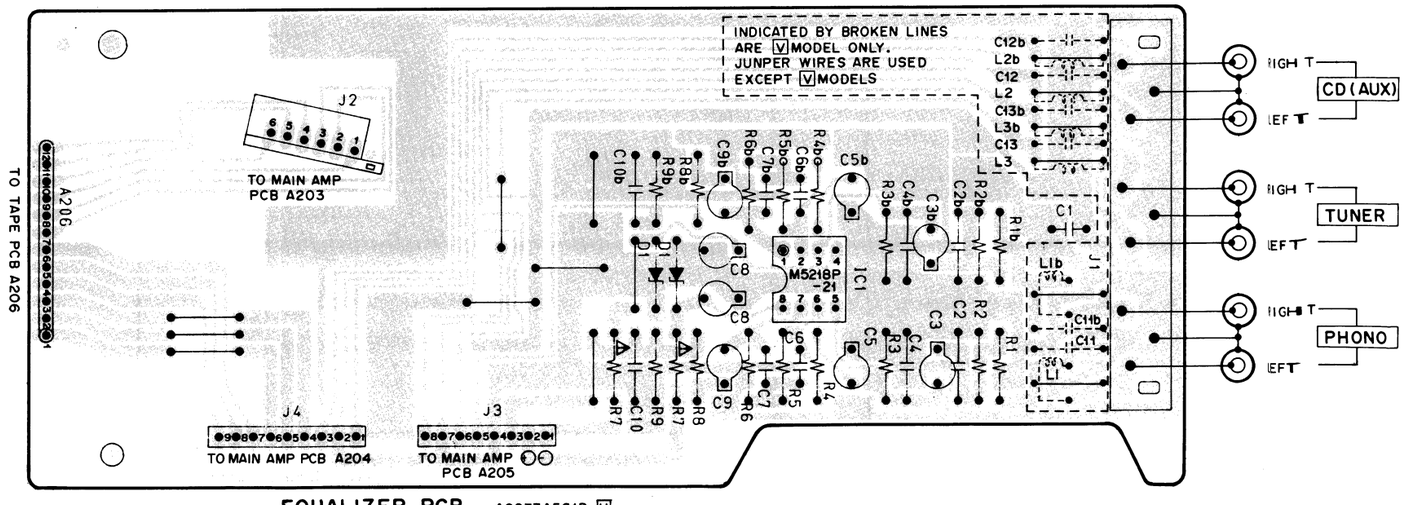


2SA1283
2SC3243

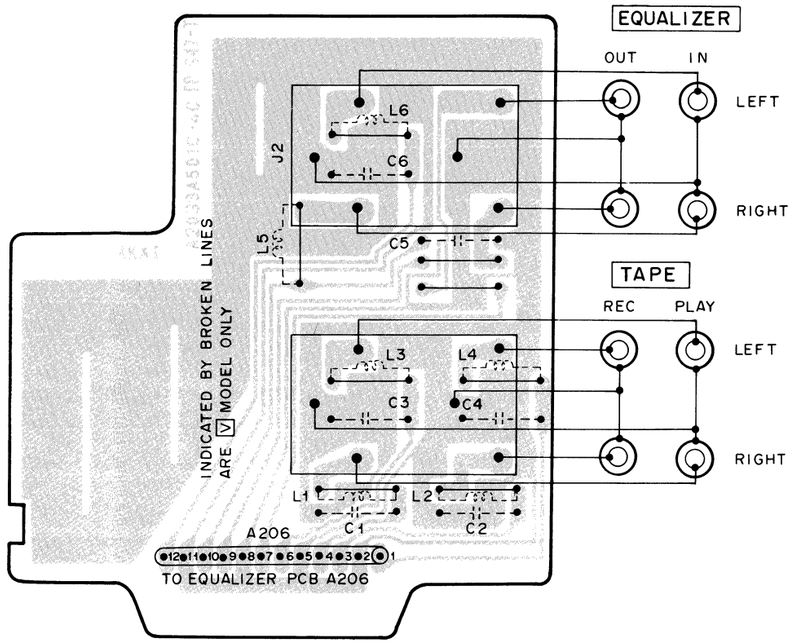


WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

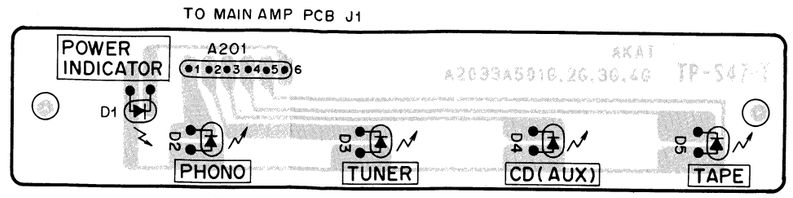
AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT


INDICATED BY BROKEN LINES ARE V MODEL ONLY.
JUNPER WIRES ARE USED EXCEPT V MODELS
TO TAPE PCB A206
A206
J2
TO MAIN AMP PCB A203
J4
TO MAIN AMP PCB A204
J3
TO MAIN AMP PCB A205
IC1 M5218P-21
C12b L2b C12 L2 C13b L3b C13 L3
C10b C9b R9b R8b C7b R6b C6b R5bc R4bc C5b C4b C3b R3b C2b R2b R1b C1 L1b J1 C11b C11 L1
C8 C6 C5 C4 C3 C2 R2 R1
C9 C7 R5 R4 R3
D1
R7 C10 R9 R7 R8
HIGH T
LEFT
CD(AUX)
TUNER
PHONO

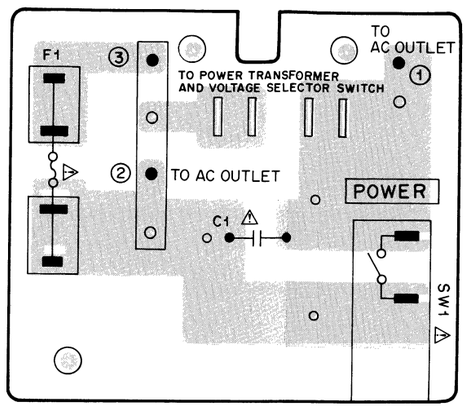
EQUALIZER PCB A2033A501B U
A502B C,A
A503B E,B,S
A504B V



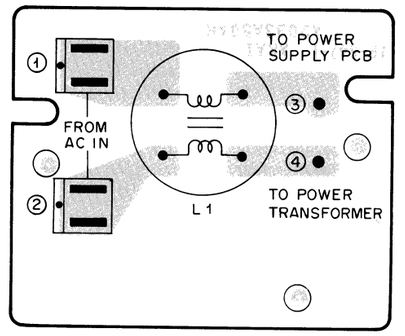
TAPE PCB A2033A501C U
A502C C,A
A503C E,B,S
A504C V



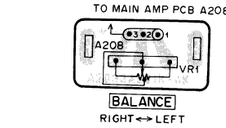
LED PCB A2033A501G U
A502G C,A
A503G E,B,S
A504G V



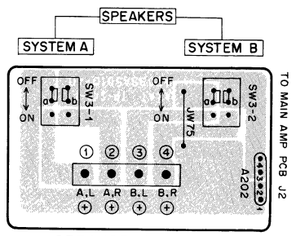
POWER SUPPLY PCB A2033A501E U



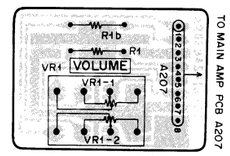
FILTER PCB A2033A504H V



BALANCE PCB
A2033A501K U
A502K C,A
A503K E,B,S
A504K V



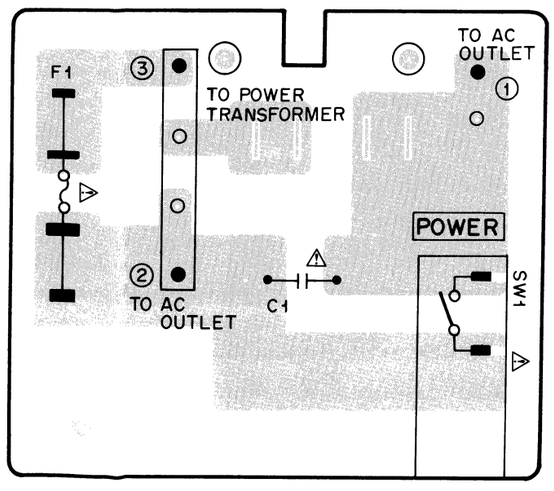
SPEAKER SW PCB
A2033A501D U
A502D C,A
A503D E,B,S
A504D V



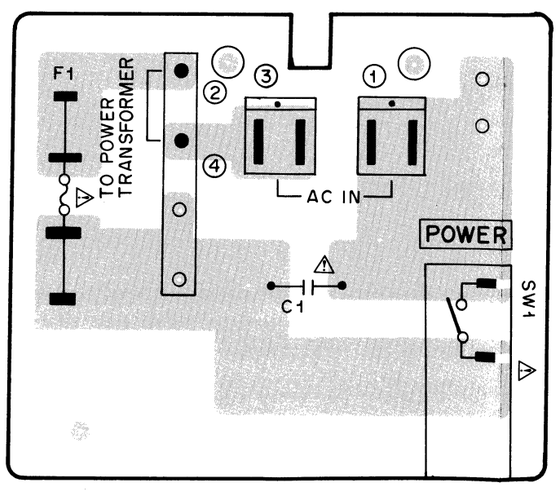
MAIN VR PCB
A2033A501J U
A502J C,A
A503J E,B,S
A504J V

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

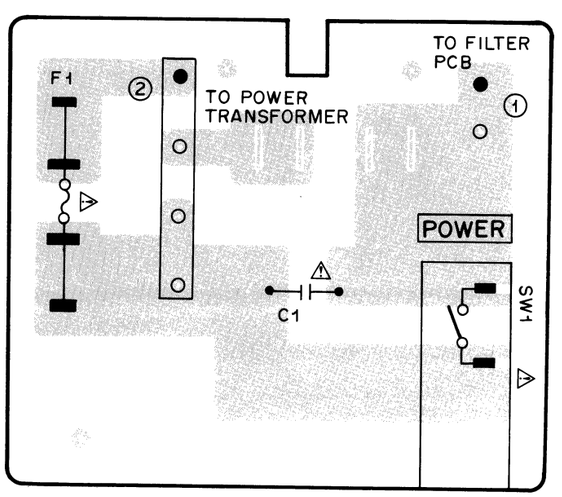
AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT



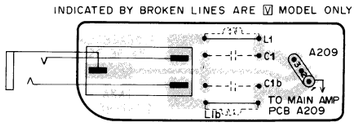
POWER SUPPLY PCB
A2033A502E C,A



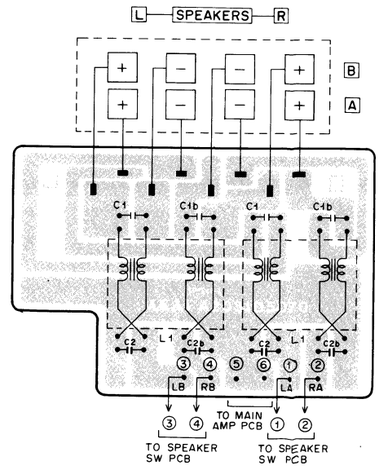
POWER SUPPLY PCB
A2033A503E E,B,S



POWER SUPPLY PCB
A2033A504E V



HEAD PHONE PCB
A2033A501F U
A502F C,A
A503F E,B,S
A504F V



SPEAKER TERMINAL PCB
A203ID5070